

<b>Understanding Alcohol: Investigations into Biology and Behavior</b>		
<b>North Carolina Standard Course of Study – Science: Grades 6, 7, 8</b>		
<b>Lesson</b>	<b>Competency Goal</b>	<b>Description</b>
<b>3</b>	<b>1.01</b>	Identify and create questions and hypotheses that can be answered through scientific investigations.
<b>3, 4</b>	<b>1.04</b>	Analyze variables in scientific investigations: identify dependent and independent, use of a control, manipulate, describe relationships between, and define operationally.
<b>All lessons</b>	<b>1.05</b>	Analyze evidence to: explain observations, make inferences and predictions, and develop the relationship between evidence and explanation.
<b>2, 3, 4, 5</b>	<b>1.06</b>	Use mathematics to gather, organize, and present quantitative data resulting from scientific investigations: measurement, analysis of data, graphing, and prediction models.
<b>3,4</b>	<b>1.07</b>	Prepare models and/or computer simulations to: test hypotheses and evaluate how data fit.
<b>All lessons</b>	<b>1.08</b>	Use oral and written language to: communicate findings and defend conclusions of scientific investigations.
<b>3</b>	<b>1.09</b>	Use technologies and information systems to: research, gather and analyze data, visualize data, and disseminate findings to others.
<b>6</b>	<b>1.10</b>	Analyze and evaluate information from a scientifically literate viewpoint by reading, hearing, and/or viewing: scientific text, articles, and events in the popular press.
<b>3, 5</b>	<b>4.04</b>	Evaluate how systems in the human body help regulate the internal environment. (7)
<b>2, 3, 5</b>	<b>4.05</b>	Analyze how an imbalance in homeostasis may result from a disruption in any human system. (7)
<b>All lessons</b>	<b>4.07</b>	Explain the effects of environmental influences on human embryo development and human health including: smoking, alcohol, drugs, and diet. (8)
<b>All lessons</b>	<b>4.08</b>	Explain how understanding human body systems can help make informed decisions regarding health. (8)
<b>3, 4</b>	<b>5.06</b>	Evaluate evidence that human characteristics are a product of: inheritance, environmental factors, and lifestyle choices. (8)
<b>2, 3, 4, 5</b>	<b>4.09</b>	Describe factors that determine the effects a chemical has on a living organism including: exposure, potency, dose, and the resultant concentration of chemical in the organism, individual susceptibility, and possible means to eliminate ore reduce effects. (8)

Source: [http://www.ncpublicschools.org/curriculum/ncStandard Course of Study](http://www.ncpublicschools.org/curriculum/ncStandard%20Course%20of%20Study)

All alignments are based on the curriculum standards as of 08/06.

North Carolina Standard Course of Study - Mathematics: Grades 6, 7, 8		
Lesson	Competency Goal	Description
2, 3, 4, 5	1.01	Develop and use ratios, proportions, and percents to solve problems. (7)
2, 3, 4, 5	1.02	Develop meaning for percents: connect the model, number word, and number using a variety of representations and make estimates in appropriate situations. (6)
2, 3, 4, 5	1.02	Develop fluency in addition, subtraction, multiplication, and division of non-negative rational numbers: analyze computational strategies, describe the effect of operations on size, estimate the results of computations, and judge the reasonableness of solutions. (7)
2, 3, 4, 5	1.02	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. (8)
2, 3, 4, 5	1.03	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. (7)
2, 3, 4, 5	1.04	Develop fluency in addition, subtraction, multiplication, and division of non-negative rational numbers: analyze computational strategies, describe the effect of operations on size, estimate the results of computations, and judge the reasonableness of solutions. (6)
2, 3, 4, 5	1.07	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. (6)
3, 4, 5	4.01	Collect, organize, analyze, and display data (including box plots, histograms, and scatterplots) to solve problems. (7 & 8)
3, 4, 5	4.06	Design and conduct experiments or surveys to solve problems; report and analyze results. (6)
3, 4, 5	5.01	Identify, analyze, and create linear relations, sequences, and functions using symbols, graphs, tables, diagrams, and written descriptions. (7)
3, 4, 5	5.01	Develop an understanding of function: translate among verbal, tabular, graphic, and algebraic representations of functions, identify relations and functions as linear or nonlinear, find, identify, and interpret the slope (rate of change) and intercepts of a linear relation, and interpret and compare properties of linear functions from tables, graphs, or equations. (8)

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<b>3, 4, 5</b>	<b>5.04</b>	Use graphs, tables, and symbols to model and solve problems involving rates of change and ratios (6)
<b>North Carolina Standard Course of Study – English Language Arts: Grades 6, 7, 8</b>		
<b>Lesson</b>	<b>Competency Goal</b>	<b>Description</b>
<b>All lessons</b>	<b>1.03</b>	Interact appropriately in group settings by: listening attentively, showing empathy, contributing relevant comments connecting personal experiences to content, and monitoring own understanding of the discussion and seeking clarification as needed (6), shares personal reactions to questions raised, gives reasons and cites examples from text in support of expressed opinions, clarifies, illustrates, or expands on a response when asked to do so, and asks classmates for similar expansion. (8)
<b>5, 6</b>	<b>1.04</b>	Reflect on learning experiences by: evaluating how personal perspectives are influenced by society, cultural differences, and historical issues, appraising changes in self throughout the learning process, and evaluating personal circumstances and background that shape interaction with text.
<b>6</b>	<b>2.01</b>	Explore informational materials that are read, heard, and/or viewed by: monitoring comprehension for understanding of what is read, heard, and/or viewed, studying the characteristics of informational works, restating and summarizing information, determining the importance and accuracy of information, making connections between works, self, and related topics/information, comparing and/or contrasting information, drawing inferences and/or conclusions, and generating questions.
<b>6</b>	<b>3.03</b>	Evaluate and create arguments that persuade by: Understanding the importance of the engagement of audience by establishing a context, creating a persona, and otherwise developing interest, noting and/or developing a controlling idea that makes a clear and knowledgeable judgment, arranging details, reasons, and examples effectively and persuasively, anticipating and addressing reader/listener concerns and counterarguments, and recognizing and/or creating an organizing structure appropriate to purpose, audience, and context.
<b>North Carolina Standard Course of Study – Healthful Living: Grades 6, 7, 8</b>		
<b>Lesson</b>	<b>Competency Goal</b>	<b>Description</b>
<b>All lessons</b>	<b>1.01</b>	Use a structured thinking process to make decisions and solve problems. (6)
<b>1, 6</b>	<b>2.01</b>	Analyze messages in the media targeting teens. (7)

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<b>1, 6</b>	<b>5.01</b>	Evaluate advertising for tobacco and alcohol and predict reasons for possible influences on behavior. (6)
<b>3, 4, 5, 6</b>	<b>5.02</b>	Identify short term and long-term benefits of resistance to substance abuse. (6)
<b>6</b>	<b>5.03</b>	Evaluate the social, economic, and cosmetic consequences of using alcohol, tobacco, or other drugs. (7)
<b>4, 5, 6</b>	<b>5.05</b>	Demonstrate effective assertive refusal skills in refusing alcohol and other drugs. (6)
<b>4, 6</b>	<b>5.05</b>	Summarize drug dependence and addiction and the dangers associated with each. (7)
<b>4, 6</b>	<b>5.06</b>	Delineate the sequence of substance abuse that can lead to serious health risks. (7)
<b>5, 6</b>	<b>5.07</b>	Describe the risks associated with alcohol and other drug use and driving. (8)
<b>All lessons</b>	<b>10.03</b>	Utilize time effectively to complete assigned tasks. (6)
<b>All lessons</b>	<b>10.04</b>	Work cooperatively and productively in a group to accomplish a set goal in both cooperative and competitive activities. (6 & 8)

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